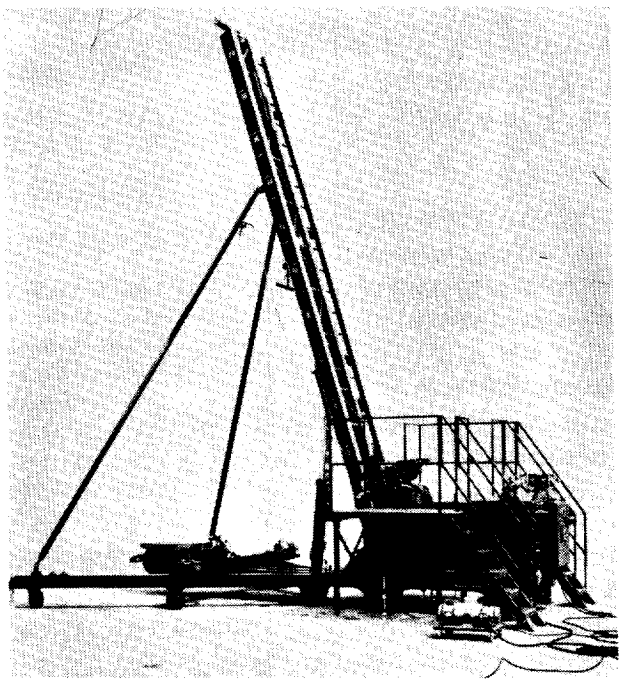
DIRECTORY OF NAVAL TRAINING DEVICES



EJECTION SEAT, UNIVERSAL,TRAINER, DEVICE 9E6

TRAINING CATEGORY:

PHYSIOLOGICAL TRAINING (Emergency Escape, Survival)

ORIGINATING AGENCY:

DCNO/AIR

SECURITY CLASSIFICATION:

Device 9E6 is unclassified.

INTENDED USE:

Device 9E6 is used to train aircraft personnel in proper pre-ejection procedures, and to familiarize them with the sensations experienced during an actual ejection in order to promote confidence in emergency survival equipment. The device simulates all aspects of the ejection process from the pre-ejection procedures through the powered ejection from the cockpit. The device is suited for use with a variety of ejection seat types.

FUNCTIONAL DESCRIPTION:

The trainee is seated in an actual aircraft ejection seat in a simulated cockpit which provides visual environmental familiarization. All controls and other features necessary for completing the pre-ejection procedures are provided. Proper completion of each of these procedures is monitored by the instructor by means of indicator lights on the instructor's control panel. Ejection takes place only when all procedures have been properly completed, and then only when the instructor actuates his safety release. The ejection seat is driven upward by a pneumatic cylinder, producing controllable acceleration forces (up to a maximum of approximately 10.5 G's). The seat and its occupant rise 8 to 15' and then are returned to the loading position with the descent rate controlled by means of a mechanical braking system.

PHYSICAL INFORMATION:

The minimum space required for operation of the device is approximately 35' long by 20' wide by 30' high.

The device weighs 5,500 lbs. In order to preserve level and balance, it must rest on a surface which is sufficiently firm and compact to resist settling. A concrete slab is preferable. If the device is to be located on turf, 2" x 8" x 12" blocks of wood should be placed under each of the five (5) jacks. This should be regarded only as a temporary installation, as unequal settling will inevitably occur.

The surface selected for installation must be reasonably level. The device is equipped with leveling jacks and a bubble level indicator for accommodation of moderate surface irregularities, but the variation across the length or width of the mounting surface should not exceed 3".

Minimum doorway opening to permit passage of the device is 108" wide by 60" high.

ENVIRONMENTAL CHARACTERISTICS:

The device should be installed in an enclosed building to prevent damage due to weather.

EQUIPMENT REQUIRED (NOT SUPPLIED):

1. One (1), Adjustable Wrench, 3" capacity
2. One (1), Hand-powered Hydraulic Lift Truck, 5' Lift Height, 1,000 lb. capacity.
3. One (1), Lot Assorted Dummy Weights
4. One (1), Pre-flight Test Kit consisting of:

   Four (4) wooden wedges, to be inserted in Koch fittings in shoulder harness and lap belt to activate the switches and illuminate the SHOULDER HARNESS FASTENED indicator (20), and LAP BELT FASTENED indicator (21); Two (2) spring clips, to be attached to the rudder pedals to activate the switches and illuminate the FEET PLACEMENT indicator (19); One (1) sear with lanyard, to be inserted in firing mechanism.

POWER REQUIREMENTS:

115 VAC, 60 Hz., 1-phase. Maximum current - 30 amp.

SPECIAL REQUIREMENTS:

Trainee must wear steel-toed shoes.

CONTRACT IDENTIFICATION:

Manufactured by Burteck Inc., P.O. Box 1677, Tulsa, OK under NAVTRASYSCEN Contract No. N61339-71-C-0084.

LOCAL STOCK NUMBER:

6930-LL-C00-1407